

CLAIMS

What is claimed is:

- 1 1. A method of
2 recovering embedded data from a data set, and
3 quantitatively determining degree of data corruption of the data set with respect to an
4 original data set by measuring degradation of recovered embedded data.
- 1 2. The method of claim 1, further comprising quantitatively measuring temporal duration of
2 data set corruption for data sets.
- 1 3. The method of claim 1, further comprising quantitatively measuring spatial extent of data
2 set corruption for image data sets.
- 1 4. The method of claim 1, further comprising measurement of watermarks embedded using
2 correlation based embedders.
- 1 5. The method of claim 1, further comprising measurement of watermarks embedded using
2 quantization based embedders.
- 1 6. The method of claim 1, further comprising quantitatively measuring corruption of
2 audiovisual data sets by measuring corruption of temporally varied image frame watermarks.
- 1 7. The method of claim 1, further comprising measurement of global degradation of a
2 received data sets.
- 1 8. An article comprising a computer readable medium to store computer executable
2 instructions, the instructions defined to cause a computer to
3 recover embedded data from a data set, and
4 quantitatively determine degree of data corruption of the data set with respect to an
5 original data set by measuring the amount of recovered embedded data.

1 9. The article comprising a computer readable medium to store computer executable
2 instructions of claim 8, wherein the instructions further cause a computer to quantitatively
3 measure temporal duration of data set corruption for data sets.

1 10. The article comprising a computer readable medium to store computer executable
2 instructions of claim 8, wherein the instructions further cause a computer to quantitatively
3 measuring spatial extent of data set corruption for image data sets.

1 11. The article comprising a computer readable medium to store computer executable
2 instructions of claim 8, wherein the instructions further cause a computer to measure embedded
3 watermarks using correlation based embedders.

1 12. The article comprising a computer readable medium to store computer executable
2 instructions of claim 8, wherein the instructions further cause a computer to measure of
3 watermarks embedded using quantization based embedders.

1 13. The article comprising a computer readable medium to store computer executable
2 instructions of claim 8, wherein the instructions further cause a computer to quantitatively
3 measure corruption of audiovisual data sets by measuring corruption of temporally varied image
4 frame watermarks.

1 14. The article comprising a computer readable medium to store computer executable
2 instructions of claim 8, wherein the instructions further cause a computer to measure global
3 degradation of a received data sets.

1 15. A data degradation measurement system comprising
2 a watermark recovery module to recover embedded data from a data set, and
3 a measurement module to quantitatively determine degree of data corruption of the data
4 set with respect to an original data set by measuring the amount of recovered embedded data.

1 16. The data degradation measurement system of claim 15, further comprising a temporal
2 module to quantitatively measure temporal duration of data set corruption for data sets.

1 17. The data degradation measurement system of claim 15, further comprising a spatial
2 module to measure spatial extent of data set corruption for image data sets.

1 18. The data degradation measurement system of claim 15, further comprising a module to
2 measure watermarks embedded using correlation based embedders.

1 19. The data degradation measurement system of claim 15, further comprising a module to
2 measure watermarks embedded using quantization based embedders.

1 20. The data degradation measurement system of claim 15, further comprising a module to
2 quantitatively measuring corruption of audiovisual data sets by measuring corruption of
3 temporally varied image frame watermarks.

1 21. The data degradation measurement system of claim 15, further comprising a module to
2 measure global degradation of a received data sets.

1 22. A method of
2 embedding a signal that degrades with a host signal change, and
3 quantitatively determining degree of data corruption of a data set with respect to an
4 original data set by measuring the degradation of recovered embedded signal.